




```
import pandas as pd
import seaborn as sns
```

```
df=pd.read_csv("insurance.csv")
df
```

	age	sex	bmi	children	smoker	region	charges	
0	19	female	27.900	0	yes	southwest	16884.92400	
1	18	male	33.770	1	no	southeast	1725.55230	
2	28	male	33.000	3	no	southeast	4449.46200	
3	33	male	22.705	0	no	northwest	21984.47061	
4	32	male	28.880	0	no	northwest	3866.85520	
...	
1333	50	male	30.970	3	no	northwest	10600.54830	
1334	18	female	31.920	0	no	northeast	2205.98080	
1335	18	female	36.850	0	no	southeast	1629.83350	
1336	21	female	25.800	0	no	southwest	2007.94500	
1337	61	female	29.070	0	yes	northwest	29141.36030	




1338 rows × 7 columns

Next steps:

Generate code with df

New interactive sheet

```
df['age'].mean()
df
```

	age	sex	bmi	children	smoker	region	charges	
0	19	female	27.900	0	yes	southwest	16884.92400	
1	18	male	33.770	1	no	southeast	1725.55230	
2	28	male	33.000	3	no	southeast	4449.46200	
3	33	male	22.705	0	no	northwest	21984.47061	
4	32	male	28.880	0	no	northwest	3866.85520	
...	
1333	50	male	30.970	3	no	northwest	10600.54830	
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1336	21	female	25.800	0	no	southwest	2007.94500	
1337	61	female	29.070	0	yes	northwest	29141.36030	

1338 rows × 7 columns

Next steps:

Generate code with df

New interactive sheet

df.isnull().sum()

	0
age	0
sex	0
bmi	0
children	0
smoker	0
region	0
charges	0

dtype: int64

df['sex'].value_counts()

```
count
sex
male    676
female  662
```

```
dtype: int64
```

```
sns.distplot(df['age'])
```

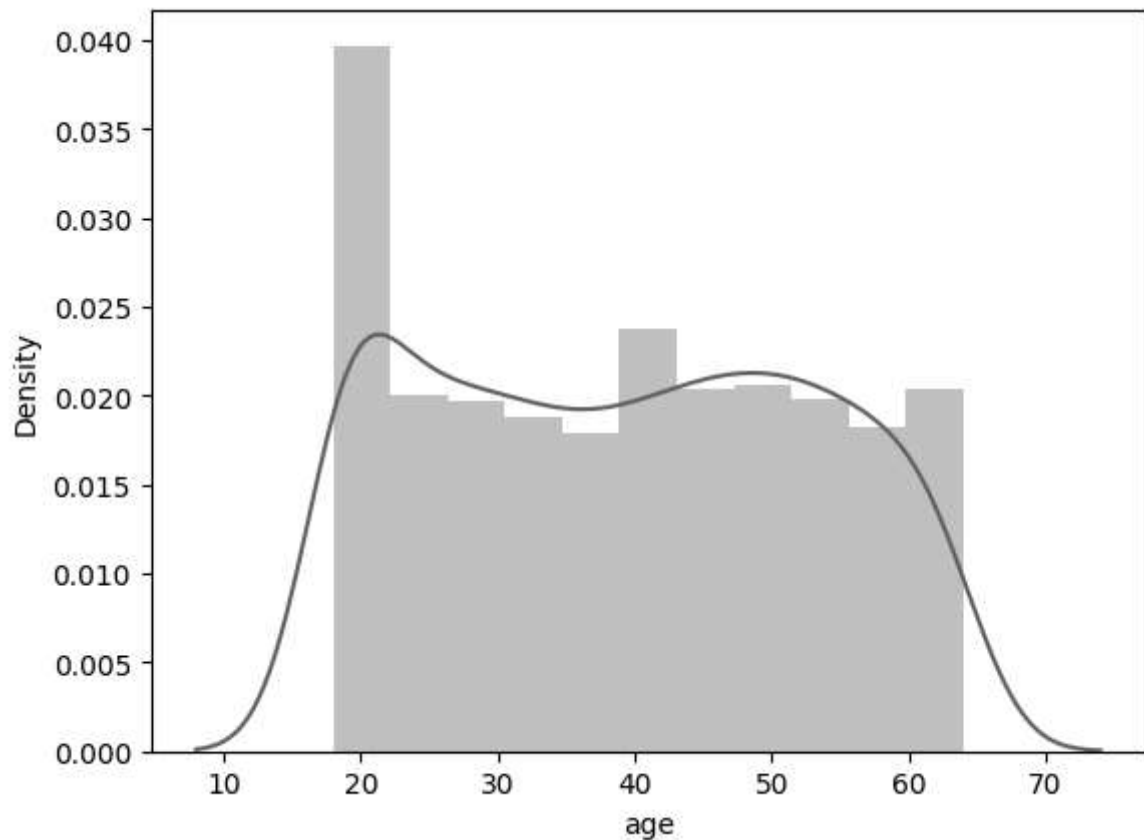
/tmp/ipython-input-3234920688.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

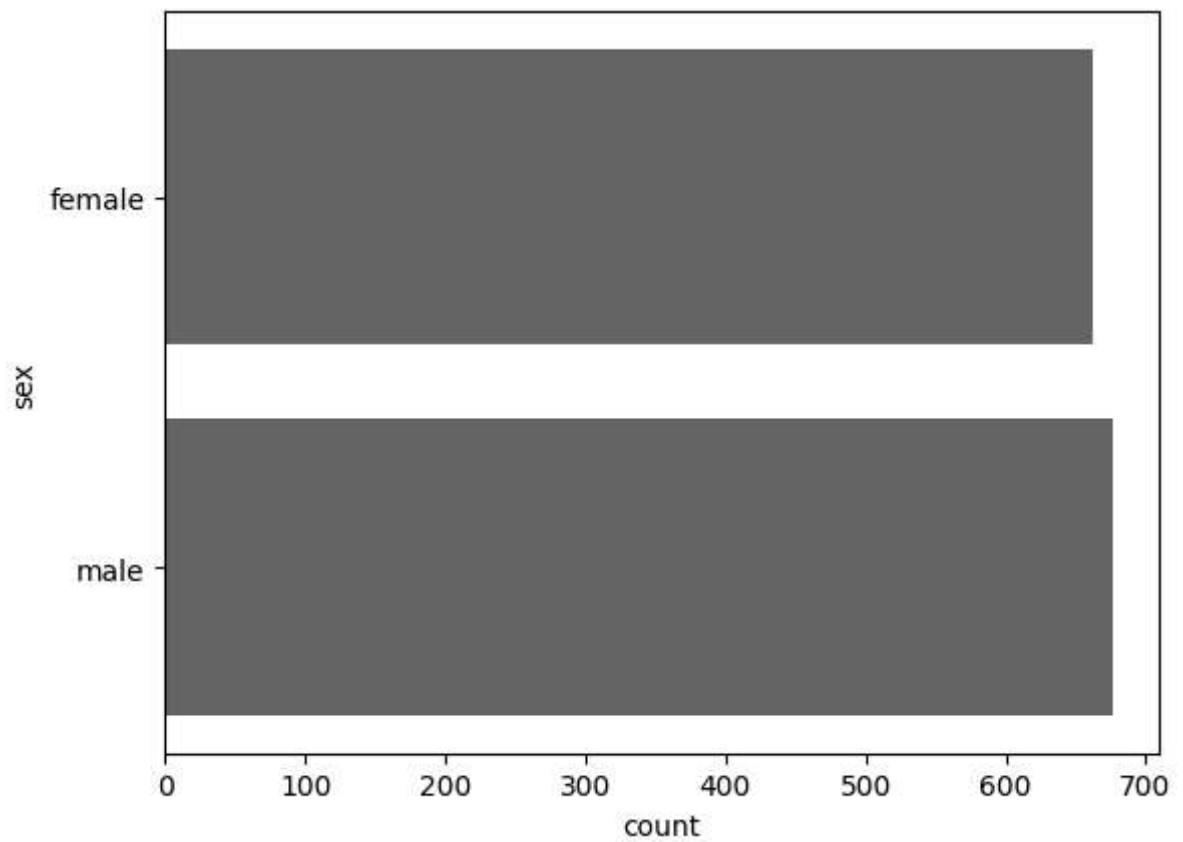
For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(df['age'])
<Axes: xlabel='age', ylabel='Density'>
```



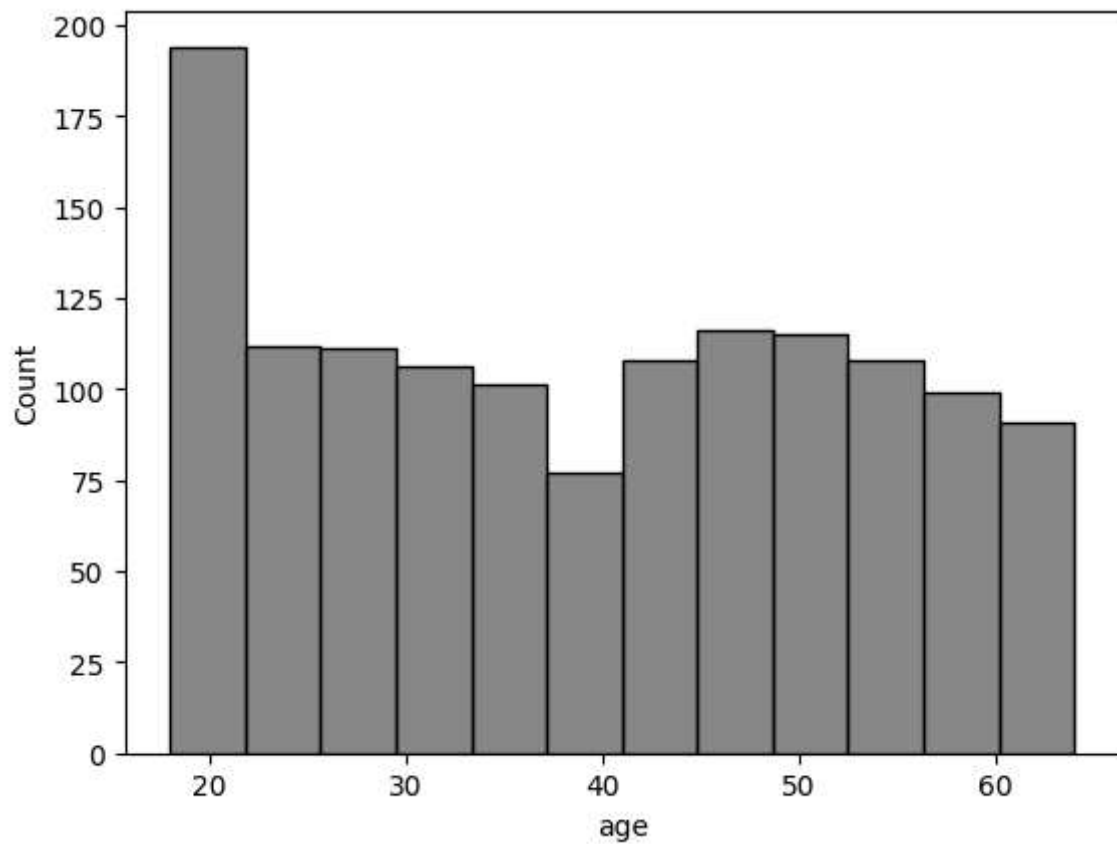
```
sns.countplot(df['sex.'])
```

```
<Axes: xlabel='count', ylabel='sex'>
```



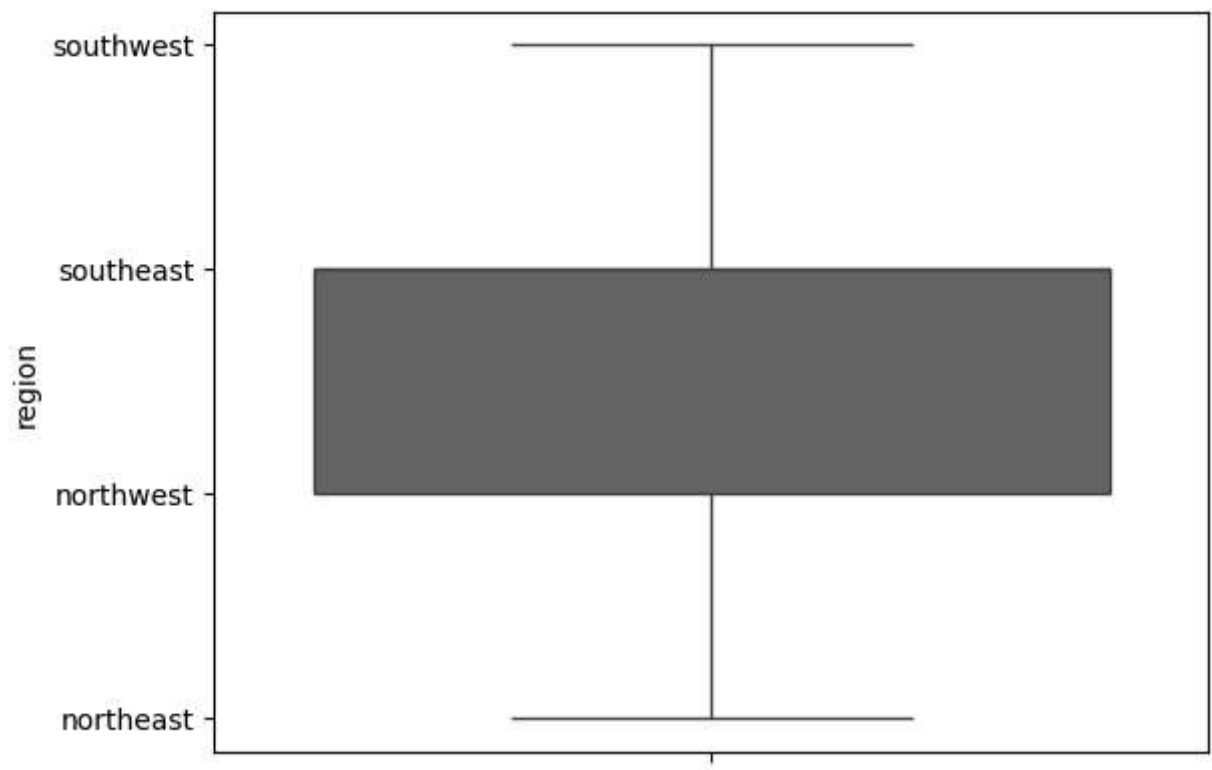
```
sns.histplot(df['age'])
```

<Axes: xlabel='age', ylabel='Count'>



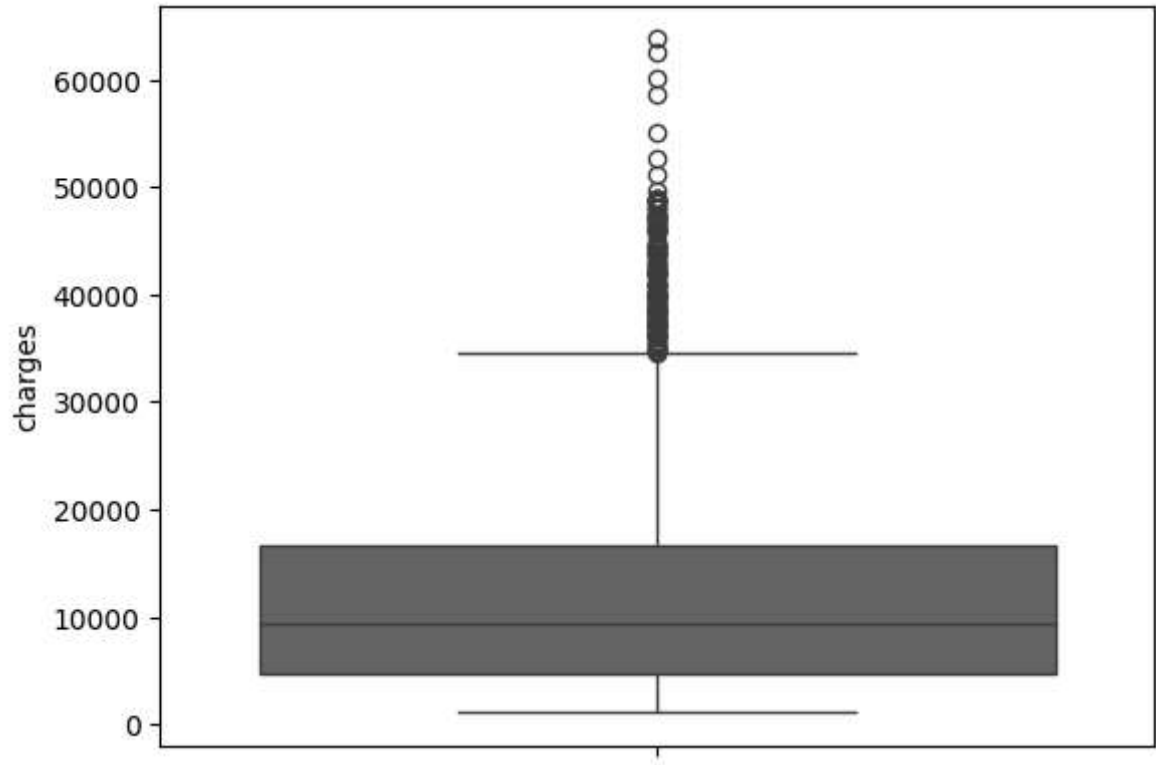
```
sns.boxplot(df['region'])
```

<Axes: ylabel='region'>



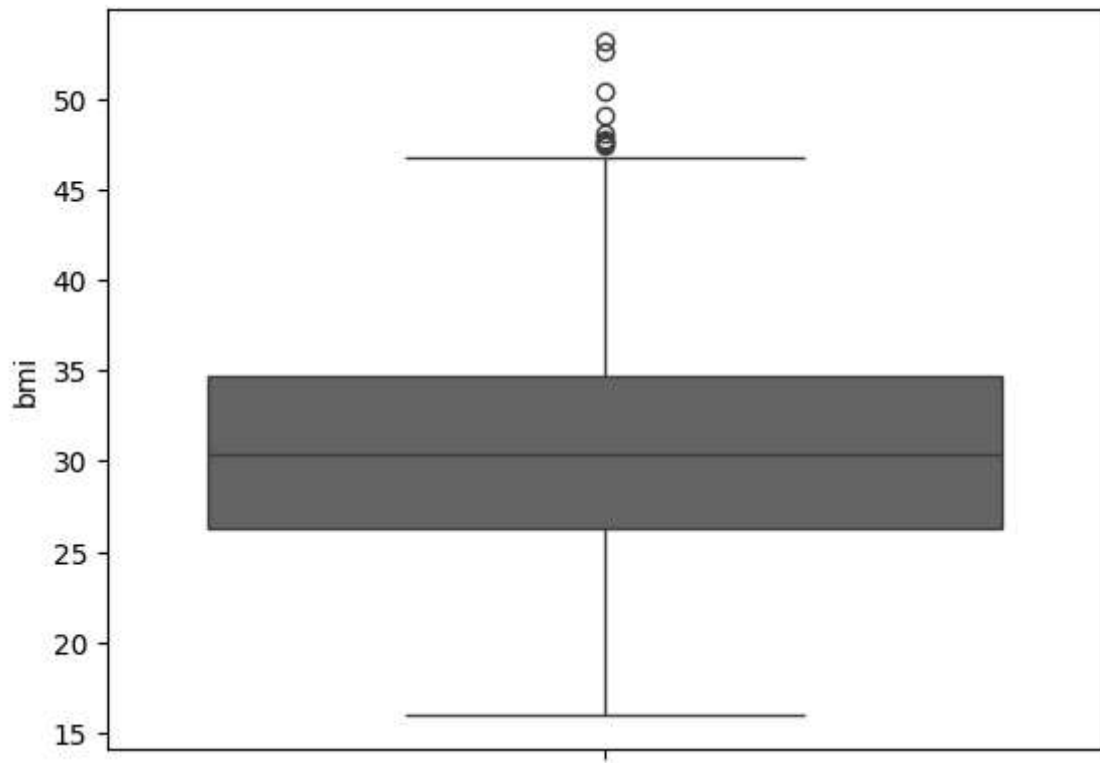
```
sns.boxplot(df['charges'])
```

<Axes: ylabel='charges'>



```
sns.boxplot(df['bmi'])
```

<Axes: ylabel='bmi'>



Start coding or [generate](#) with AI.

```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
df['sex']=le.fit_transform(df['sex'])
df['region']=le.fit_transform(df['region'])
df['smoker']=le.fit_transform(df['smoker'])
```

```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
a=["sex","smoker","region"]
for i in a:
    df[i]=le.fit_transform(df[i])
```

```
a=[1,2,3,4,5,67,]
```

```
df.head()
```

	age	sex	bmi	children	smoker	region	charges
0	19	0	27.900	0	yes	southwest	16884.92400
1	18	1	33.770	1	no	southeast	1725.55230
2	28	1	33.000	3	no	southeast	4449.46200
3	33	1	22.705	0	no	northwest	21984.47061
4	32	1	28.880	0	no	northwest	3866.85520

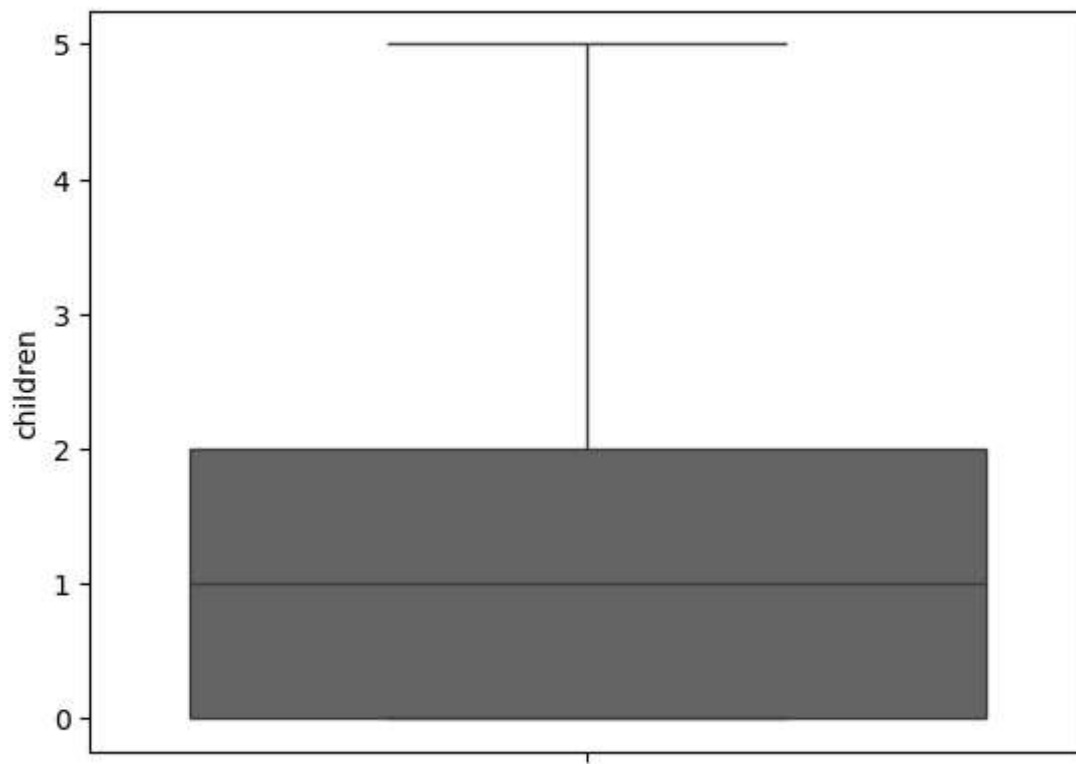
Next steps:

[Generate code with df](#)

[New interactive sheet](#)

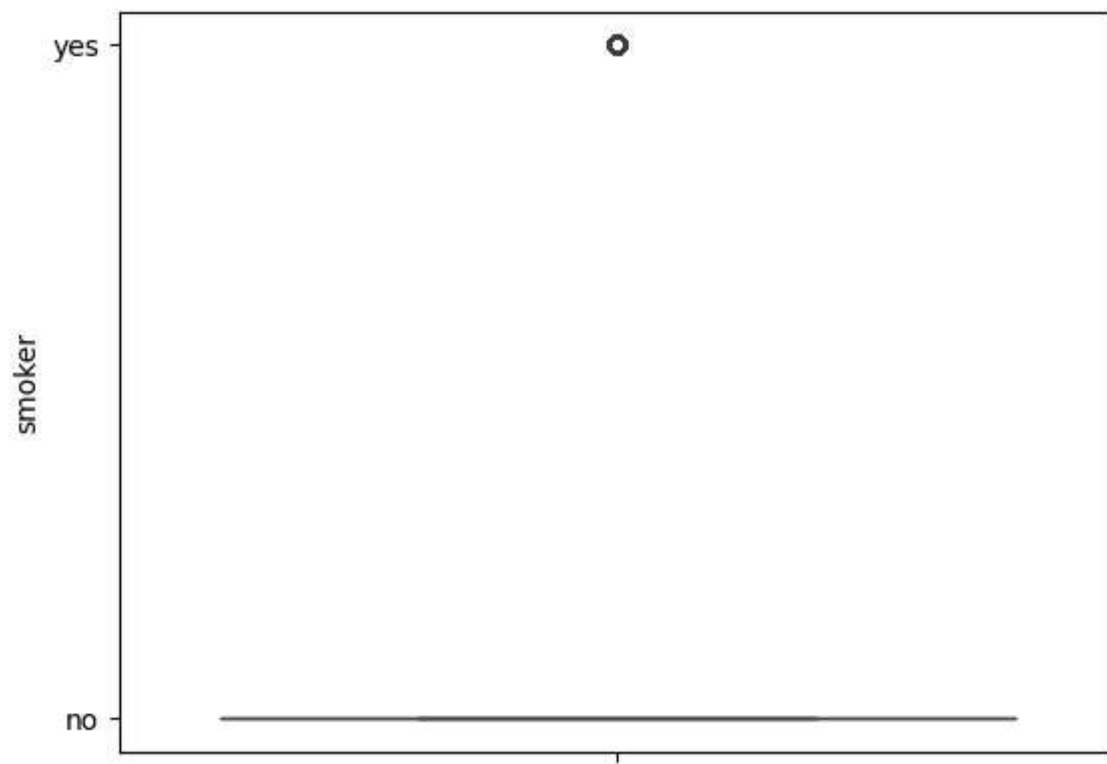
```
sns.boxplot(df['children'])
```

<Axes: ylabel='children'>



```
sns.boxplot(df['smoker'])
```

<Axes: ylabel='smoker'>



```
sns.boxplot(df['sex'])
```


<Axes: ylabel='sex'>

female

